Topic : <u>Volume and Surface Area of Solids and Cylinders - Worksheet 1</u>

1. **Find the surface area of a wooden box whose shape is of a cube, and if the edge of the box is 2 cm.**

2. **The diameter of an iron sphere is 8 cm. It is beaten and drawn into a wire with a diameter of 2 mm. Find the length of the wire.**

3. **A hundred metal spheres with a radius of 4 cm each are melted. The melted solution is filled into a cube with a base area of 16 cm × 10 cm. Find the height of the cube filled with the solution.**

4. **What is the volume of a regular cylinder whose base has a radius of 14 cm and has a height of 6 cm?**

5. **A cubical box has the dimensions 6in × 3in × 7in. How many cubes with the dimensions of 3 in x 4 in x 2 in can be fitted into the cubical box?**

6. **Milk is sold in aluminum cans that measure 13 inches in height and 6 inches in diameter. How many cubic inches of milk are contained in a full can?**

7. **A cubical box has the dimensions 6in × 7in × 2in. How many cubes with the dimensions of 4 in x 4 in x 4 in can be fitted into the cubical box?**

8. **The diameter of an iron sphere is 6 cm. It is beaten and drawn into a wire with a diameter of 8 cm. Find the length of the wire.**

9. **A cylindrical glass is 18 cm deep and 14 cm wide. How much liquid can the glass hold?**

10. **A glass is 20 cm deep and 16 cm wide. How much liquid can the glass hold?**
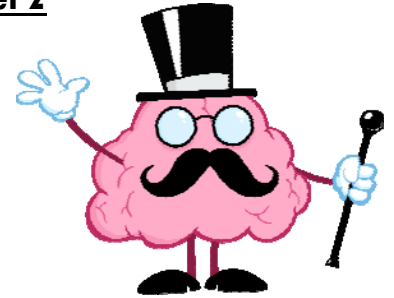
Name: _____   Date _____

Topic : <u>Volume and Surface Area of Solids and Cylinders - Worksheet 2</u>

Do the following:

1. **Find the surface area of a wooden box whose shape is of a cube, and if the edge of the box is 4 cm.**

2. **The diameter of an iron sphere is 6 cm. It is beaten and drawn into a wire with a diameter of 4 mm. Find the length of the wire.**

3. **A hundred metal spheres with a radius of 5 cm each melted and this melted solution is filled in Cube with base area 12 cm × 8 cm. Find the height of Cube filled with solution.**

4. **What is the volume of a regular cylinder whose base has a radius of 16 cm and has a height of 8 cm?**

5. **A cubical box has the dimensions 5in × 2in × 6in. How many cubes with the dimensions of 4 in x 4 in x 6 in can be fitted into the cubical box?**

6. **Milk is sold in aluminum cans that measure 12 inches in height and 8 inches in diameter. How many cubic inches of milk are contained in a full can?**

7. **A cubical box has the dimensions 7in × 6in × 4in. How many cubes with the dimensions of 6 in x 6 in x 6 in can be fitted into the cubical box?**

8. **The diameter of an iron sphere is 8 cm. It is beaten and drawn into a wire with a diameter of 6 cm. Find the length of the wire.**

9. **A cylindrical glass is 16 cm deep and 6 cm wide. How much liquid can the glass hold?**

10. **A glass is 18 cm deep and 12 cm wide. How much liquid can the glass hold?**

Name: _____   Date _____

Topic : <u>Volume and Surface Area of Solids and Cylinders - Worksheet 3</u>

Do the following:

1. Find the surface area of a wooden box whose shape is of a cube, and if the edge of the box is 5 cm.

2. The diameter of an iron sphere is 12 cm. It is beaten and drawn into a wire with a diameter of 10 mm. Find the length of the wire.

3. Fifty metal spheres with a radius of 4 cm each are melted. The melted solution is filled into a cube shape with a base area of 10 cm × 8 cm. Find the height of cube filled with the solution.

4. What is the volume of a regular cylinder whose base has a radius of 18 cm and has a height of 9 cm?

5. A cubical box has the dimensions 6in × 4in × 6in. How many cubes with the dimensions of 5 in x 4 in x 5 in can be fitted into the cubical box?

6. Milk is sold in aluminum cans that measure 14 inches in height and 12 inches in diameter. How many cubic inches of milk are contained in a full can?

7. A cubical box has the dimensions 10in × 8in × 10in. How many cubes with the dimensions of 9 in x 9 in x 9 in can be fitted into the cubical box?

8. The diameter of an iron sphere is 6 cm. It is beaten and drawn into a wire with a diameter of 4 cm. Find the length of the wire.

9. A cylindrical glass is 15 cm deep and 14 cm wide. How much liquid can the glass hold?

10. A glass is 16 cm deep and 12 cm wide. How much liquid can the glass hold?

Name: _____   Date _____

Topic : <u>Volume and Surface Area of Solids and Cylinders - Worksheet 4</u>

Do the following:

1. **Find the surface area of a wooden box whose shape is of a cube, and if the edge of the box is 6 cm.**

2. **The diameter of an iron sphere is 20 cm. It is beaten and drawn into a wire with a diameter of 16 mm. Find the length of the wire.**

3. **Twenty metal spheres with a radius of 7 cm each are melted. The melted solution is filled into a cube with a base area of 11 cm × 9 cm. Find the height of the cube filled with the solution.**

4. **What is the volume of a regular cylinder whose base has a radius of 17 cm and has a height of 11 cm?**

5. **A cubical box has the dimensions 10in × 6in × 10in. How many cubes with the dimensions of 3 in x 4 in x 5 in can be fitted into the cubical box?**

6. **Milk is sold in aluminum cans that measure 15 inches in height and 14 inches in diameter. How many cubic inches of milk are contained in a full can?**

7. **A cubical box has the dimensions 12in × 8in × 12in. How many cubes with the dimensions of 6 in x 8 in x 9 in can be fitted into the cubical box?**

8. **The diameter of an iron sphere is 8 cm. It is beaten and drawn into a wire with a diameter of 6 cm. Find the length of the wire.**

9. **A cylindrical glass is 19 cm deep and 16 cm wide. How much liquid can the glass hold?**

10. **A glass is 21 cm deep and 10cm wide. How much liquid can the glass hold?**

Name: _____   Date _____

Topic : <u>Volume and Surface Area of Solids and Cylinders - Worksheet 5</u>

Do the following:

1. **Find the surface area of a wooden box whose shape is of a cube, and if the edge of the box is 4 cm.**

2. **The diameter of an iron sphere is 18 cm. It is beaten and drawn into a wire with a diameter of 14 mm. Find the length of the wire.**

3. **Thirty metal spheres with a radius of 11 cm each are melted. The melted solution is filled into a cube with a base area of 13 cm × 8 cm. Find the height of the cube filled with the solution.**

4. **What is the volume of a regular cylinder whose base has a radius of 19 cm and has a height of 10 cm?**

5. **A cubical box has the dimensions 9in × 9in × 10in. How many cubes with the dimensions of 5 in x 4 in x 6 in can be fitted into the cubical box?**

6. **Milk is sold in aluminum cans that measure 17 inches in height and 12 inches in diameter. How many cubic inches of milk are contained in a full can?**

7. **A cubical box has the dimensions 10in × 8in × 9in. How many cubes with the dimensions of 6 in x 10 in x 9 in can be fitted into the cubical box?**

8. **The diameter of an iron sphere is 10 cm. It is beaten and drawn into a wire with a diameter of 8 cm. Find the length of the wire.**

9. **A cylindrical glass is 21 cm deep and 18 cm wide. How much liquid can the glass hold?**

10. **A glass is 22 cm deep and 12 cm wide. How much liquid can the glass hold?**